



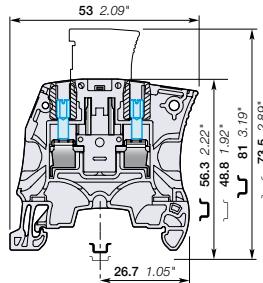
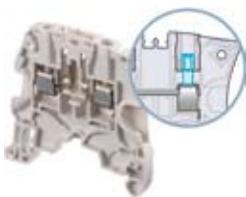
## ZS4-SP-T2 Screw Clamp Terminal Block Disconnect



**4 mm<sup>2</sup>**  
*10 AWG*

**5.2 mm 0.205 in Spacing**

## Features and Benefits



- Ease your test operations with the 2 built-in test socket screws DIA 2 mm 0.079 in,
- Save time with our screwless component holder plug,
- Same profile as ZS4 feed-through terminal block for aligned marking and identical end section use.

3D CAD outline drawings available on "Control Product 3D" portal

Ordering Details	Type	Order Code	EAN Code	Pack <sup>(ing)</sup>	Weight g (1 pce)	
Grey	<input type="checkbox"/>	ZS4-SP-T2	1SNK 505 314 R0000	3472595053148	50	8.40

## General Information

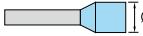
The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.

Protection		IP 20	NEMA 1		
Rail		DIN3-TH35			
Wire stripping length		10.5 mm	0.413 in		
		Screw clamp		Screw rail contact (Maximum value)	
		Flat screwdriver			
Operating tool		3.5 mm	0.138 in		
Torque		0.6 Nm ± 0.1 Nm	5.31 lb.in ± 0.885 lb.in	± 0.1 Nm	± 0.885 lb.in
Mechanical endurance of disconnect system					

## Material Specifications

Insulating material	<b>Polyamide</b>		
IRC	<b>600 V</b>		
Flammability	<b>UL94 V0</b>		
	<b>NF F 16 101 I2F2</b>		
	Needle flame test IEC 60695-11-5 <b>Compliant</b>		

## Connecting capacity per clamp

1 Rigid conductor		<b>0.2-4 mm<sup>2</sup></b>		24-10 AWG
1 Flexible conductor without ferrule		<b>0.22-4 mm<sup>2</sup></b>		24-10 AWG
1 Flexible conductor with ferrule		<b>0.22-4 mm<sup>2</sup></b>		24-12 AWG
Ferrule maximum outer diameter		Ø Max.	<b>4.7 mm</b>	0.185 in

## Multi Connecting capacity per clamp

2 Rigid conductors		<b>0.2-1 mm<sup>2</sup></b>		24-18 AWG
2 Flexible conductors without ferrule		<b>0.22-1 mm<sup>2</sup></b>		24-18 AWG
2 Flexible conductors with twin ferrule		<b>0.22-1.5 mm<sup>2</sup></b>		24-16 AWG

Don't mix **solid and flexible** conductors in the same clamp

Don't mix **solid or flexible** conductors of different sizes in the same clamp

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3

## Cross section

Rated cross section		<b>4 mm<sup>2</sup></b>		10 AWG
Maximum Cross section	<b>Manufacturer data</b>	<b>4 mm<sup>2</sup></b>	<i>Manufacturer data</i>	10 AWG
Gauge	<b>A3-B3 / 3 mm / 0.118 in / IEC 60947-7-1</b>			

## Electrical characteristics

### Current

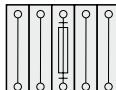
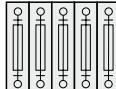
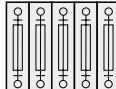
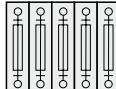
Rated current		<b>IEC 60947-7-1</b>	<b>20 A</b>
	Field and factory wiring Cat.2	UL 1059	<b>20 A</b>
	Factory wiring Cat.1	UL 1059	<b>20 A</b>
		CSA-C-22.2 n° 158	
Rated short-time withstand current 1 s (lcw)			<b>480 A</b>
Short-time withstand current	0.5 s	Manufacturer data	
	5 s	Manufacturer data	
	10 s	Manufacturer data	
	30 s	Manufacturer data	
	1 mn	Manufacturer data	
Rated short circuit withstand		CSA-C-22.2 n° 158	
Max. current (45° temperature increase) / Max. cross section (mm <sup>2</sup> )		Manufacturer data	<b>20 A</b>
Maximum short circuit current (1s)		Manufacturer data	<b>480 A</b>

### Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR UL 1059

With the following configurations:

Maximum voltage	
Suitable conductor wire range	
Fuse rating	
Fuse designation	
Fuse manufacturer name	
Fuse type	
Short circuit current	

<b>Voltage</b>			
Rated voltage	IEC 60947-1	<b>400 V</b>	
Rated voltage	UL 1059	<b>150 V</b>	
Use Group	UL 1059	<b>C</b>	
Rated voltage	CSA-C-22.2 n° 158	<b>150 V</b>	
Rated voltage Ex e	IEC/EN 60079-11		
Rated impulse withstand voltage		<b>6000 V</b>	
Dielectric test voltage		<b>1890 V</b>	
Pollution degree	IEC 60947-1	<b>3</b>	
Overvoltage category	IEC 60947-1	<b>III</b>	
<b>Dissipated power</b>			
Maximum dissipated power at rated current	IEC	<b>0.6 W</b>	
<b>Rated power dissipation at an ambient temperature of 23 °C - IEC 60947-7-3</b>			
Overload and short-circuit protection Separate arrangement	 1 fuse and 4 feed-through blocks		
Exclusive short-circuit protection Separate arrangement	 1 fuse and 4 feed-through blocks		
Overload and short-circuit protection Compound arrangement	 5 fuse blocks		
Exclusive short-circuit protection Compound arrangement	 5 fuse blocks		
<b>Temperature range</b>			
Ambient temperature min/max	Storage	<b>-55 +110 °C</b>	-67 +230 F
	Installing	<b>-5 +40 °C</b>	-23 +104 F
	Service	IEC 60068-2-1	<b>-55 +110 °C</b>
		EN 60079-7	-67 +230 F

Current Derating curve for continuous service temperature

## Environmental Characteristics

### Additional climatic tests

Dry heat	IEC 60068-2-2	Compliant
Conditions	Temperature	+100 °C
	Duration of test	96 h
Cyclic damp heat	IEC 60068-2-30	Compliant
Conditions	Temperature	+55 °C
	Number of cycles	2
Cold	IEC 60068-2-1	Compliant
Conditions	Temperature	-40 °C
	Duration of test	96 h
Z/ABDM climatic sequence	IEC 60068-2-61	Compliant
Conditions	Dry heat Duration of test / Temperature	16 h +85 °C
	Cyclic damp heat Number of cycles / Temperature	1 +55 °C
	Cold Duration of test / Temperature	2 h -25 °C

### Corrosion

Salt mist	IEC 60068-2-11	Compliant
Conditions	Duration of test	96 h
	Concentration	5 %
SO2	ISO 6988	Compliant
Conditions	Duration of test	48 h
	Concentration	0.2 dm <sup>3</sup>
Sulfur dioxide	IEC 60068-2-42	
Conditions	Duration of test	
Hydrogen sulfur	IEC 60068-2-43	
Conditions	Duration of test	
Flowing mixed gas corrosion test	IEC 60068-2-60	
Conditions	Number of the test method	
	Duration of test	

### Vibrations

Vibrations	IEC 60068-2-6	Compliant
Conditions	Frequency range	10-55 Hz
	Number of cycles	10
	Amplitude	
	Acceleration	10 m/s <sup>2</sup>
Random vibrations and climatic sequence	IEC 60068-2-64	
Conditions	Duration of test	
	Frequency range	
	Acceleration	
Climatic cycles		
Step 1 -> Temperature / Duration of test		
Step 2 -> Temperature / Duration of test		
Temperature variation per minute		

**ZS4-SP-T2 Terminal Block Accessories Compatibility**

Description	Type	Order Code	Pack <sup>(ing)</sup> pieces	Weight g (1 pce)	Technical Datasheet PDF
<b>1</b> End Stops	<b>BAM3</b>	<b>1SNK 900 001 R0000</b>	50	13.80	<b>1SNK 160 026 D0201</b>
<b>2</b> End Sections	<b>ES4</b>	<b>1SNK 505 910 R0000</b>	20	2.18	<b>1SNK 160 022 D0201</b>
<b>3</b> Circuit Separators	<b>CS-R1</b>	<b>1SNK 900 103 R0000</b>	20	5.20	<b>1SNK 160 018 D0201</b>
<b>4</b> Component Plugs	<b>PG5</b>	<b>1SNK 900 401 R0000</b>	20	3.45	<b>1SNK 160 038 D0201</b>
<b>5</b> Disconnect Plugs	<b>PG5-R1</b>	<b>1SNK 900 402 R0000</b>	20	3.45	<b>1SNK 160 037 D0201</b>
<b>6</b> Test Plugs	<b>FC2.MC</b>	<b>1SNA 107 239 R0300</b>	10	1.00	<b>1SNK 160 036 D0201</b>
<b>7</b> Shield Connectors	<b>SHBS</b>	<b>1SNK 900 600 R0000</b>	20	3.50	<b>1SNK 160 025 D0201</b>
<b>8</b> Protecting Covers	<b>CO</b>	<b>1SNK 900 604 R0000</b>	1	300.00	<b>1SNK 160 020 D0201</b>
	<b>PL5</b>	<b>1SNK 900 618 R0000</b>	20	1.50	<b>1SNK 160 021 D0201</b>
<b>9</b> Protecting Cover Kits	<b>KCO</b>	<b>1SNK 900 624 R0000</b>	1	47,8	<b>1SNK 160 028 D0201</b>
<b>10</b> Tools	<b>PS-3</b>	<b>1SNK 900 650 R0000</b>	1	380.00	<b>1SNK 160 024 D0201</b>
<b>11</b> Terminal Block Markers	<b>MC512</b>	<b>1SNK 140 000 R0000</b>	22	0.06	<b>1SNK 160 003 D0201</b>
	<b>PROCAP5</b>	<b>1SNK 900 609 R0000</b>	20	0.70	<b>1SNK 160 013 D0201</b>
	<b>UMH</b>	<b>1SNK 900 611 R0000</b>	10	0.20	<b>1SNK 160 001 D0201</b>
	<b>SAT5</b>	<b>1SNK 900 614 R0000</b>	5	6.00	<b>1SNK 160 013 D0201</b>